## Appendix A

ALLERGEN SOURCE	SYSTEMATIC AND ORIGINAL NAMES	MW KDA	SEQ	ACCESSION NO. OR REFERENCES
WEED POLLENS				
Asterales				
Ambrosia artemisiifolia (short ragweed)	Amb a 1; antigen E Amb a 2; antigen K Amb a 3; Ra3 Amb a 5; Ra5	38 38 11 5	0000	8,20 8,21 22 11,23
	Amb a 6; Ra6 Amb a 7; Ra7 Amb a ?	10 12 11	C P C	24,25 26 27
Ambrosia trifida (giant ragweed)	Amb t 5; Ra5G	4.4	С	9,10,28
Artemisia vulgaris (mugwort)	Art v 1 Art v 2	27-29 35	C P	28A 29
Helianthus annuus (sunflower)	Hel a 1 Hel a 2; profilin	34 15.7	- C	29a Y15210
Mercurialis annua	Mer a 1; profilin	14-15	С	Y13271
GRASS POLLENS	_			
Poales				
Cynodon dactylon (Bermuda grass)	Cyn d 1 Cyn d 7 Cyn d 12; profilin	32	CCC	30,S83343 31,X91256 31a,Y08390
Dactylis glomerata (orchard grass)	Dac g 1; AgDg1 Dac g 2 Dac g 3 Dac g 5	32 11 31	P C C	32 33,S45354 33a,U25343 34
Holcus lanatus (velvet grass)	Hol 1 1		С	Z27084,Z68893
Lolium perenne (rye grass)	Lol p 1; group I Lol p 2; group II Lol p 3; group III Lol p 5; Lol p IX, Lol p Ib Lol p 11; trypsin inh. Related	27 11 11 31/35	CCC	35,36 37,37a,X73363 38 34,39 39a
Phalaris aquatica (canary grass)	Pha a 1		С	40,S80654
Phleum pratense (timothy grass)	Phl p 1 Phl p 2 Phl p 4 Phl p 5; Ag25 Phl p 6	32	C C P C C	X78813 41,X75925 41A 42 43,Z27082
	Phl p 12; profilin		С	44,X77583

	T	1 5 2 2 7		1.7000010
	Phl p 13; polygalacturonase	55-60	С	AJ238848
Poa pratensis	Poa p 1; group I	33	P	46
(Kentucky blue	Poap 5	31/34	С	34,47
grass)	· ·			
Sorghum halepense	Sor h 1		C	48
	Sorni			
(Johnson grass)	<u> </u>			
TREE POLLENS				
Fagales				
Alnus glutinosa	Aln g 1	17	С	S50892
(alder)				
Betula verrucosa	Bet v 1	17	С	see list of
(birch)				isoallergens
(Onon)				M65179
	Bet v 2; profilin	15	С	X79267
	Bet v 3	8		X87153/S54819
	Bet v 4		Č	AF135127
	Bet v 5; isoflavone reductase	33.5	000	
	IN The state of th	33.3	C	
	homologue			
	Bet v 7; cyclophilin	18	С	P P81531
Carpinus betulus	Car b 1	17	C	51
(hornbeam)				
	Const. Date: 11 amola ma	22	P	52
Castanea sativa	Cas s 1; Bet v 1 homologue	22	r	32
(chestnut)	Cas s5; chitinase			
Corylus avelana	Cor a 1	17	С	53
(hazel)				
Quercus alba	Que a 1	17	P	54
(white oak)	Que a 1	''	-	
	ļ	41.45		55.56
Cryptomeria japonica	Cry j 1	41-45	C	55,56
(sugi)	Cry j 2		С	57,D29772
Juniperus ashei	Jun a 1	43	P	P81294
(mountain cedar)	Jun a 3	30	P	P81295
Juniperus oxycedrus	Jun o 2; calmodulin-like	29	С	AF031471
(prickly juniper)	Juli 0 2, cannodum-nec	-	ľ	12001111
9		<del>-  </del>		50
Juniperus sabinoides	Jun s 1	50	P	58
(mountain cedar)	<u> </u>			
Juniperus virginiana	Jun v 1	43	P	P81825
(eastern red cedar)				
Oleales	<u> </u>		<u> </u>	<u> </u>
	T		<u> </u>	504
Fraxinus excelsior	Fra e 1	20	P	58A
(ash)				ļ
Ligustrum vulgare	Lig v 1	20	P	58A
(privet)	g · -	ļ	1	
	Ole e 1:	16	С	59,60
Olea europea	Ole e 1;	4	C	60A
(olive)	Ole e 2; profilin	15-18		60B
	Ole e 3;	9.2		
	Ole e 4;	32	P	P80741

	Ole e 5; superoxide dismutase Ole e 6;	16 10	P C	P80740 U86342
Syringa vulgaris (lilac)	Syr v 1	20	P	58A
MITES				
Acarus siro (mite)	Aca s 13; fatty acid-bind.prot.	14*	С	AJ006774
Blomia tropicalis (mite)	Blo t 5; Blo t 12; Bt11a Blo t 13; Bt6 fatty acid-binding prot		CCC	U59102 U27479 U58106
Dermatophagoides pteronyssinus (mite)	Der p 1; antigen P1 Der p 2; Der p 3; trypsin Der p 4; amylase Der p 5; Der p 6; chymotrypsin Der p 7; Der p 8; glutathione transferase Der p 9; collagenolytic serine prot. Der p 10; tropomyosin Der p 14; apolipophorin like p	25 14 28/30 60 14 25 22-28		61 62 63 64 65 66 67 67A 67B Y14906 Epton p.c.
Dermatophagoides microceras (mite)	Der m 1;	25	P	68
Dermatophagoides farinae (mite)	Der f 1; Der f 2; Der f 3; Der f 10; tropomyosin Der f 11; paramyosin Der f 14; Mag3, apolipophorin	25 14 30 98	000000	69 70,71 63 72 72a D17686
Euroglyphus maynei (mite)	Eur m 14; apolipophorin	177	С	AF149827
Lepidoglyphus destructor (storage mite)	Lep d 2.0101; Lep d 2.0102;	15 15	CC	73,74,75 75
ANIMALS				
Bos domesticus (domestic cattle) (see also foods)	Bos d 2; Ag3,lipocalin Bos d 4; alpha-lactalbumin Bos d 5; beta-lactoglobulin Bos d 6; serum albumin Bos d 7; immunoglobulin Bos d 8; caseins	20 14.2 18.3 67 160 20-30	0000	76,L42867 M18780 X14712 M73993 77 77
Canis familiaris (Canis domesticus (dog)	Can f 1; Can f 2; Can f ?; albumin	25 27	000	78,79 78,79 S72946
Equus caballus (domestic horse)	Equ c 1; lipocalin Equ c 2; lipocali	25 18.5	C P	U70823 79A,79B
Felis domesticus	Fel d 1; cat-1	38	С	15

(cat saliva)		·		
Mus musculus (mouse urine)	Mus m 1; MUP	19	С	80,81
Rattus norvegius (rat urine)	Rat n 1	17	С	82,83
Fungi	<u> </u>	!		<u> </u>
Ascomycota	· · · · · · · · · · · · · · · · · · ·			<del></del>
Dothidiales				
Alternaria alternata	Alt a 1;	28	С	U82633
Atternatia atternata	Alt a 2;	25	С	U87807,U87808
	Alt a 3; heat shock protein	70	C	X78222,
	Alt a 6; ribosomal protein	11		U87806
	Alt a 7; YCP4 protein	22	CCC	X78225
	Alt a 10; aldehyde dehydrogenase	53	С	X78227, P42041
e .	Alt a 11; enolase	45	C	U82437
			C	X84216
	Alt a 12;acid.ribosomal prot P1	11		02 021
Cladosporium	Cla h 1;	13		83a,83b
herbarum	Cla h 2;	23	_	83a,83b
	Cla h 3; aldehyde dehydrogenase	53	C	X78228
	Cla h 4; ribosomal protein	11	C	X78223
	Cla h 5; YCP4 protein	22	C	X78224
	Cla h 6; enolase	46	С	X78226
	Cla h 12;acid.ribosomal prot P1	11	С	X85180
Eurotiales				
	Asp fl 13; alkaline	34	1	84
	serine proteinase			
Aspergillus	Asp f 1;	18	C	83781,S39330
Fumigatus	Asp f 2;	37	C	U56938
	Asp f 3; peroxisomal protein	19	C	U20722
	Asp f 4;	30	C	AJ001732
	Asp f 5; metalloprotease	42	C	Z30424
	Asp f 6; Mn superoxide dismutase	26.5	C	U53561
	Asp f 7;	12	C	AJ223315
	Asp f 8; ribosomal protein P2	11	С	AJ224333
	Asp f 9;	34	C	AJ223327
	Asp f 10; aspartic protease	34		X85092
	Asp f 11; peptidyl-prolyl isom	24	_	84a
	Asp f 12; heat shock prot. P70	65	С	U92465
	Asp f 13; alkaline serine proteinase	34		84b
	Asp f 15;	16	C	AJ002026
	Asp f 16;	43	C	g3643813
	Asp f 17;	34		AJ224865 84c
	Asp f 18; vacuolar serine	90	a	84c 85
	Asp f ?; Asp f ?;	55	P P	85 86
Aspergillus niger	Asp n 14; beta-xylosidase	105	C	AF108944
-F0	Asp n 18;	34	C	84b
	vacuolar serine	1	1	I

	proteinase Asp n ?;		85	С	Z84377
Aspergillus oryzae	Asp o 2; TAKA-amylase A Asp o 13; alkaline serine proteina	se	53 34	C	D00434,M33218 X17561
Penicillium	Pen b 13; alkaline serine Proteinas		33		86a
brevicompactum Penicillium citrinum	Pen c 1; heat shock protein P70 Pen c 3; peroxisomal membrane		70	С	U64207 86b
	protein Pen c 13; alkaline serine proteinas	se	33		86a
Penicillium notatum	Pen n 1; N-acetyl glucosaminidase		68		87
	Pen n 13; alkaline serine proteinas Pen n 18; vacuolar serine proteina		34 32		89 89
Penicillium oxalicum	Pen o 18; vacuolar serine proteina	ise	34		89
Onygenales					
Trichophyton rubrum	Tri r 2; Tri r 4; serine protease			C C	90 90
Trichophyton tonsurans	Tri t 1; Tri t 4; serine protease		30 83	P C	91 90
Saccharomycetales					
Candida albicans	Cand a 1		40	С	88
Candida boidinii	Cand b 2		20	С	J04984,J04985
Basidiomycota					
Basidiolelastomycetes		-			
Malassezia furfur	Malf1;				91a
	Mal f 2; MF1 peroxisomal membrane protein	2	21	С	AB011804
	Mal f 3; MF2 peroxisomal membrane protein	2	20	С	AB011805
	Mal f 4,		35	C	Takesako, p.c. AJ011955
	Mal f 5; Mal f 6; cyclophilin homologue		8* 7*	C C	AJ011955 AJ011956
Basidiomycetes		<u> </u>		<u></u>	
Psilocybe cubensis	Psi c 1; Psi c 2; cyclophilin	1	.6		91b
Coprinus comatus (shaggy cap)	Cop c 1; Cop c 2;	1	1	С	AJ132235
•	Cop c 3;	1			Brander, p.c.
	Cop c 5;				Brander, p.c.
	Cop c 7;				Brander, p.c.
INSECTS					
Aedes aegyptii	Aed a 1; apyrase	ŧ	58	С	L12389
(mosquito)	Aed a 2;	] 3	37	C	M33157

Apis mellifera	Api m 1; phospholipase A2	16	C	92
(honey bee)	Api m 2; hyaluronidase	44	С	93
(noney occ)		3	C	94
	Api m 4; melittin			
	Api m 6;	7-8	P	Kettner,p.c.
Bombus	Bom p 1; phospholipase	16	P	95
pennsylvanicus	Bom p 4; protease		P	95
	Domp i, protono			
(bumble bee)				
Blattella germanica	Blag 1; Bd90k		C	96
(German cockroach)	Bla g 2; aspartic protease	36	С	
(German cockroach)	Bla g 4; calycin	21	C	97
	, Ç	22	Č	98
	Bla g 5; glutathione transf.	l .		
	Bla g 6; troponin C	27	С	98
Periplaneta americana	Per a 1; Cr-PII	72-78	С	98A
		1 .2 .0	c	1
(American cockroach)	Per a 3; Cr-PI	27	Č	3714054
	Per a 7; tropomyosin	37		Y14854
Chironomus thummi	Chi t 1-9; hemoglobin	16	С	99
thummi (midges)	Chi t 1.01; component III	16	С	P02229
ununun (magee)	Chi t 1.02; component IV	16	С	P02230
		16	Č	P02221
	Chi t 2.0101; component I			
	Chi t 2.0102; component IA	16	C	P02221
	Chi t 3; component II-beta	16	С	P02222
	Chi t 4; component IIIA	16	С	P02231
	Chi t 5; component VI	16	С	P02224
	Chi t 6.01; component VIIA	16	C	P02226
		16	Č	P02223
	Chi t 6.02; component IX			1
	Chi t 7; component VIIB	16	С	P02225
	Chi t 8; component VIII	16	C	P02227
	Chi t 9; component X	16	С	P02228
Dolichovespula	Dol m 1; phospholipase A1	35	С	100
maculata	Dol m 2; hyaluronidase	44	С	101
		23	Į.	102,103
(white face hornet)	Dol m 5; antigen 5	23	С	
Dolichovespula	Dol a 5; antigen 5	23	C	104
arenaria				
(yellow hornet)				
	Pol a 1; phospholipase A1	35	P	105
Polistes annularies	1	1		
(wasp)	Pol a 2; hyaluronidase	44	P	105
	Pol a 5; antigen 5	23	C	104
Polistes dominulus	Pol d 1;	32-34	С	DR Hoffman
i	Pol d 4; serine protease		<u> </u>	DR Hoffman
(Mediterranean paper			1	1
wasp)	Pol d 5;			P81656
Polistes exclamans	Pol e 1; phospholipase A1	34	P	107
(wasp)	Pol e 5; antigen 5	23	С	104
		<u> </u>		
Polistes fuscatus	Pol f 5; antigen 5	23	С	106
(wasp)			1	
Polistes metricus	Pol m 5; antigen 5	23	P	106
	1 or m 5, and gon 5	]	1	
(wasp)		<u> </u>	<del> </del>	107
I 37	I Moon a Lunhaenhalinaea	34	P	107
Vespa crabo (European hornet)	Vesp c 1; phospholipase Vesp c 5.0101; antigen 5	23	c	106

	Vesp c 5.0102; antigen 5	23	С	106
Vespa mandarina (giant asian hornet)	Vesp m 1.01; Vesp m 1.02; Vesp m 5;			DR Hoffman DR Hoffman P81657
Vespula flavopilosa (yellowjacket)	Ves f 5; antigen 5	23	С	106
Vespula germanica (yellowjacket)	Ves g 5; antigen 5	23	С	106
Vespula maculifrons (yellowjacket)	Ves m 1; phospholipase A1 Ves m 2; hyaluronidase Ves m 5; antigen 5	33.5 44 23	C P 23	108 109 104
Vespula pennsylvanica (yellowjacket)	Ves p 5; antigen 5	23	С	106
Vespula squamosa (yellowjacket)	Ves s 5; antigen 5	23	С	106
Vespula vidua (wasp)	Ves vi 5;	23	С	106
Vespula vulgaris (yellowjacket)	Ves v 1; phopholipase A1 Ves v 2; hyaluronidase Ves v 5; antigen 5	35 44 23	C P C	105A 105A 104
Myrmecia pilosula (Australian jumper ant)	Муг р 1, Муг р 2;		СС	X70256 S81785
Solenopsis geminata (tropical fire ant)	Sol g 2; Sol g 4			DR Hoffman DR Hoffman
Solenopsis invicta (fire ant)	Sol i 2; Sol i 3; Soli 4;	13 24 13	CCC	110,111 110 110
Solenopsis saevissima (brazilian fire ant)	Sols 2;			DR Hoffman
FOODS				
Gadus callarias (cod)	Gad c 1; allergen M	12	С	112,113
Salmo salar (Atlantic salmon)	Sals 1; parvalbumin	12	С	X97824,X97825
Bos domesticus (domestic cattle)	Bos d 4; alpha-lactalbumin Bos d 5; beta-lactoglobulin Bos d 6; serum albumin Bos d 7; immunoglobulin Bos d 8; caseins	14.2 18.3 67 160 20-30	C C C	M18780 X14712 M73993 77 77
Gallus domesticus (chicken)	Gal d 1; ovomucoid Gald 2; ovalbumin Gald 3; conalbumin (Ag22) Gald 4; lysozyme Gal d 5; serum albumin	28 44 78 14 69	C C C C	114,115 114,115 114,115 114,115 X60688

Metapenaeus ensis (shrimp)	Met e 1; tropomyosin		С	U08008
Penaeus aztecus (shrimp)	Pen a 1; tropomyosin	36	P	116
Penaeus indicus (shrimp)	Pen i 1; tropomyosin	34	С	117
Todarodes pacificus (squid)	Tod p 1; tropomyosin	38	P	117A
Haliotis Midae (abalone)	Hal m 1	49		117B
Apium graveolens (celery)	Api g 1; Bet v 1 homologue Api g 4; profilin Api g 5;	16* 55/58	C P	Z48967 AF129423 P81943
Brassica juncea (oriental mustard)	Bra j 1; 2S albumin	14	С	118
Brassica rapa (turnip)	Bra r 2; prohevein-like protein	25	?	P81729
Hordeum vulgare (barley)	Hor v 1; BMAI-1	15	С	119
Zea mays (maize, com)	Zea m 14; lipid transfer prot.	9	P	P19656
Corylus avellana (hazelnut)	Cor a 1.0401; Bet v 1 homologue	. 17	С	AF136945
Malus domestica (apple)	Mal d 1; Bet v 1 homologue Mal d 3; lipid transfer protein	9	C C	X83672 Pastorello
Pyrus communis (pear)	Pyr c 1; Bet v 1 homologue Pyr c 4; profilin Pyr c 5; isoflavone reductase homologue	18 14 33.5	C C	AF05730 AF129424 AF071477
Oryza sativa (rice)	Ory s 1;		C	U31771
Persea americana (avocado)	Pers a 1; endochitinase	32	С	Z78202
Prunus armeniaca (apricot)	Pru ar 1; Bet v 1 homologue Pru ar 3; lipid transfer protein	9	C P	U93165
Prunus avium (sweet cherry)	Pru av 1; Bet v 1 homologue Pru av 2; thaumatin homologue		C C	U66076 U32440
	Pru av 4; profilin	15	C	AF129425
Prunus persica (peach)	Pru p 3;lipid transfer protein	10	P	P81402
Sinapis alba (yellow mustard)	Sin a 1; 2S albumin	14	С	120
Glycine max (soybean)	Gly m 1.0101; HPS Gly m 1.0102; HPS Gly m 2 Gly m 3; profilin	7.5 7 8 14	P P P C	121 121 A57106 AJ223982

Arachis hypogaea	Ara h 1; vicilin	63.5	С	L34402
(peanut)	Ara h 2; conglutin	l 17 l	С	L77197
(pound)	Ara h 3; glycinin	14	С	AF093541
	Ara h 4; glycinin	37	c	AF086821
ļ		15	č	AF059616
	Ara h 5; profilin	15	c	AF092846
	Ara h 6; conglutin homolog			
	Ara h 7; conglutin homolog	15	С	AF091737
Actinidia chinensis	Act c 1; cysteine protease	30	P	P00785
(kiwi)				
Solanum tuberosum	Sol t 1; patatin	43	P	P15476
1	Sort 1, patatini	'	-	
(potato)				D04402 3 617146
Bertholletia excelsa	Ber e 1; 2S albumin	9	С	P04403,M17146
(Brazil nut)				
Juglans regia	Jug r 1; 2S albumin	44	С	U66866
(English walnut)	•		C	AF066055
	Jug r 2; vicilin			
Ricinus communis	Ric c 1; 2S albumin		C	P01089
(Castor bean)				
OTHERS	<u> </u>			
Anisakis simplex	Ani s 1	24	P	A59069
	\$	97	Ċ	AF173004
(nematode)	Ani s 2; paramyosin		P	122
Ascaris suum	Asc s 1;	10	P	122
(worm)				
Aedes aegyptii	Aed a 1; apyrase	68	C	L12389
(mosquito)	Aed a 2;	37	С	M33157
TT 1		58	P	123,124
Hevea brasiliensis	Hev b 1; elongation factor	58	P	123,124
(rubber)	Hev b 2; (1,3-glucanase			
1	Hev b 2; (1,3-glucanase	34/36	C	125
1	Hev b 3	24	P	126,127
1	Hev b 4; component of	100/110/115	P	128
}	microhelix protein complex			
	Hev b 5	16	С	U42640
	Hev b 6.01 hevein precursor	20	С	M36986/p02877
	Hev b 6.02 hevein	5	С	M36986/p02877
·	Hev b 6.03 C-terminal	14	l c	M36986/p02877 U80598
1 .	fragment			080398
	Hev b 7; patatin homologue	46	С	*** 50.40
	Hev b 8; profilin	14	c	Y15042
1		51	c	AJ132580/AJ1
	Hev b 9; enolase	"	~	32581
		1		AJ249148
	Hev b 10; Mn-superoxide	26	С	
	dismut			
				1
Change and -1: 1- a fall-	Cto £1.	-		_
Ctenocephalides felis	Cte f 1;	27	c	AF231352
felis	Cte f 2; M1b	21	`	A1-231332
(cat flea)	1	72*	<del>  _     _     _  </del>	V14214
Homo sapiens	Hom s 1;	73*	C	Y14314
(human	Hom s 2;	10.3*	C	X80909
autoallergens)	Hom s 3;	20.1*	C	X89985

 Hom s 4;	36*	С	Y17711
 Hom s 5;	42.6*	С	P02538

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